QR1-S-RPN standard series

R412005005

General series information
AVENTICS Series QR1 Fittings

- AVENTICS Series QR1 push-in connectors with easy, secure mounting are available in many versions: for tubing diameters from 3 to 16 mm, as well as in plastic, metal, and stainless steel variants. QR1 Series offers a cylindric thread that allows repeated connection and release without problems (Quick Release) and captive O-ring guarantees an optimal sealing. Our QR program offers the right solution for every application and industry.



Technical data

Industry	Industrial
Fitting type	Straight fitting
Compressed air connection type	External thread
Port G	G 3/8
Compressed air connection type 2	push-in fitting
Port D	Ø16
Note	Due to product optimisation, the delivered article may currently deviate from the dimensions shown.
Type	QR1-S-RPN
Working pressure min.	-0.95 bar
Working pressure max	10 bar
Min. ambient temperature	0 °C
Max. ambient temperature	60 °C
Delivery unit	10 piece
Weight	0.058 kg

Material

Surface	nickel-plated

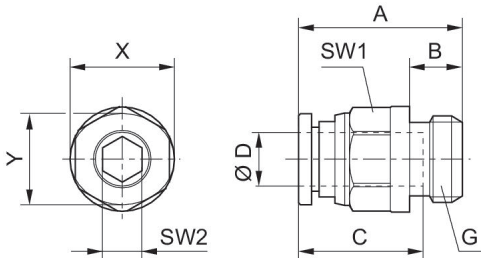
Housing material	Brass
Surface housing	nickel-plated
Seal material	Acrylonitrile butadiene rubber
Material tooth lock washer	Stainless Steel
Material release ring	Polyoxymethylene
Material release ring holder	Die cast zinc Brass
Surface release ring holder	nickel-plated
Material thread	Brass
Surface thread	nickel-plated
Part No.	R412005005

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined

Thread seal with captive O-ring

Dimensions



Part No.	Port D	Port G	A	B	C	SW1	SW2	X	Y
2121004050	M5	Ø 4	21.5	4	16	10	–	12	10
2121006050	M5	Ø 6	24.5	4	17	12	–	14	10
2121004180	G 1/8	Ø 4	20.1	5	16	10	3	12	10
2121006180	G 1/8	Ø 6	24.6	5	17	12	4	14	12
2121008180	G 1/8	Ø 8	26.5	5	18.5	14	5	16	14
R412005002	G 1/8	Ø 10	28.9	5	21	17	4	19	17
R412005003	G 1/8	Ø 12	33.5	5	22.5	21	4	23	21
2121004140	G 1/4	Ø 4	19.1	6	16	10	3	12	10
2121006140	G 1/4	Ø 6	21.6	6	17	12	4	14	12
2121008140	G 1/4	Ø 8	22.4	6	18.5	14	6	16	14
2121010140	G 1/4	Ø 10	29.9	6	21	17	7	19	17
2121012140	G 1/4	Ø 12	33.4	6	22.5	21	7	23	21
R412005000	G 3/8	Ø 6	21.6	7	17	12	4	14	12
2121008380	G 3/8	Ø 8	23.2	7	18.5	14	6	16	14
2121010380	G 3/8	Ø 10	25.9	7	21	17	8	19	17
2121012380	G 3/8	Ø 12	33.5	7	23	21	9	23	21

Part No.	Port D	Port G	A	B	C	SW1	SW2	X	Y
2121014380	G 3/8	Ø 14	30.1	7	24.6	22	9	25	23
R412005005	G 3/8	Ø16	35.3	7	25.5	24	8	27	24
R412005001	G 1/2	Ø 8	25.7	8.5	18.5	14	6	16	14
2121010120	G 1/2	Ø 10	27.4	8.5	21	17	8	19	17
2121012120	G 1/2	Ø 12	29.5	8.5	23	21	10	23	21
2121014120	G 1/2	Ø14	36.1	8.5	24.6	24	11	25	23
R412005006	G 1/2	Ø16	36.3	8.5	25.5	24	10	27	24